

AMENDMENT UNDER 37 C.F.R. § 1.116
U.S. APPLN. NO. 09/699,553
ATTORNEY DOCKET NO. Q61563

AMENDMENTS TO THE DRAWINGS

Applicants herein amend Figures 8A and 8B of the Drawings to correct a misspelling.

No new matter has been added. Entry of the Replacement Drawings is requested.

Attachment: One (1) Annotated Marked-Up Drawing

Twelve (12) Replacement Sheets

FIG. 1

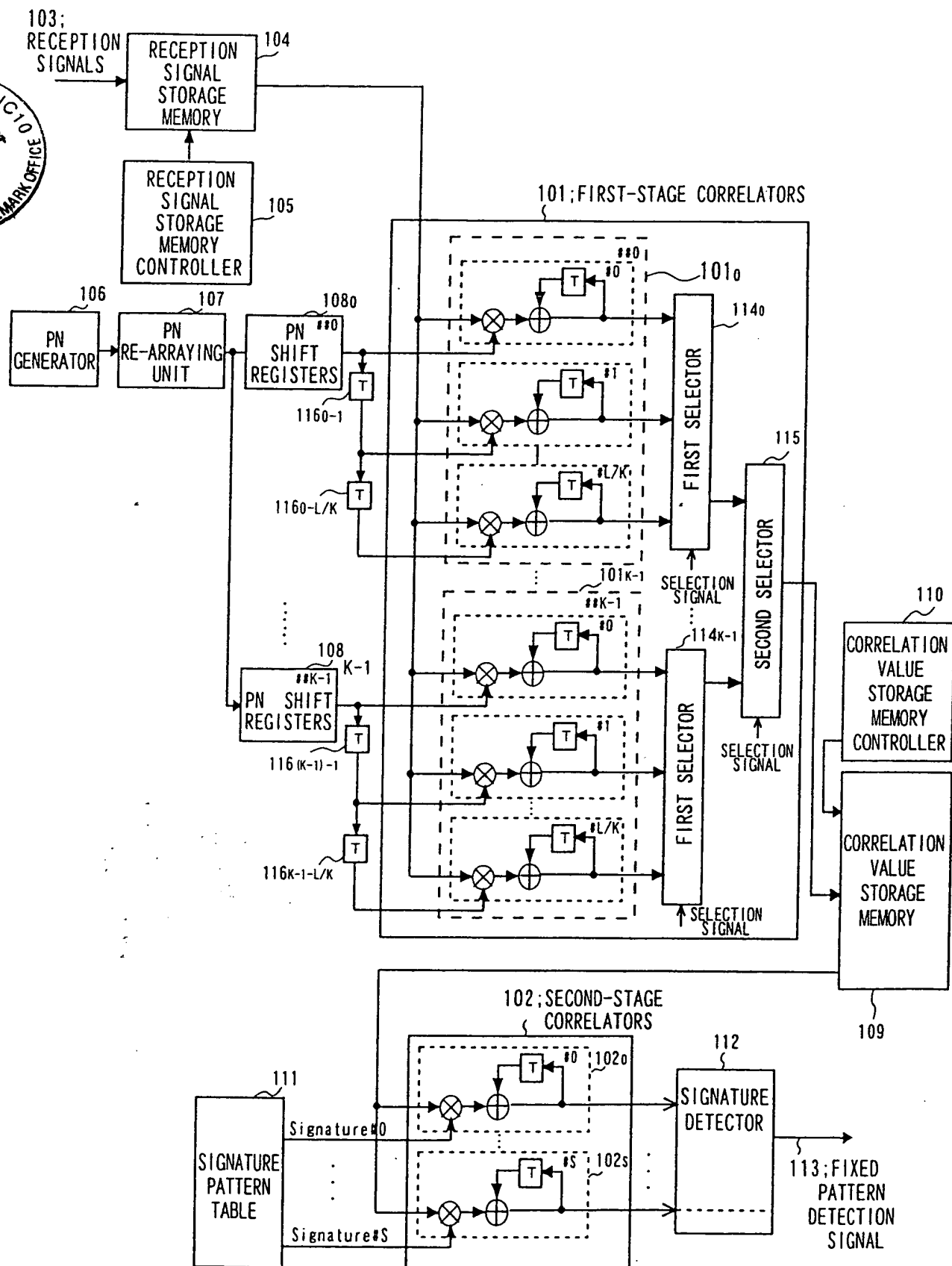


FIG. 2

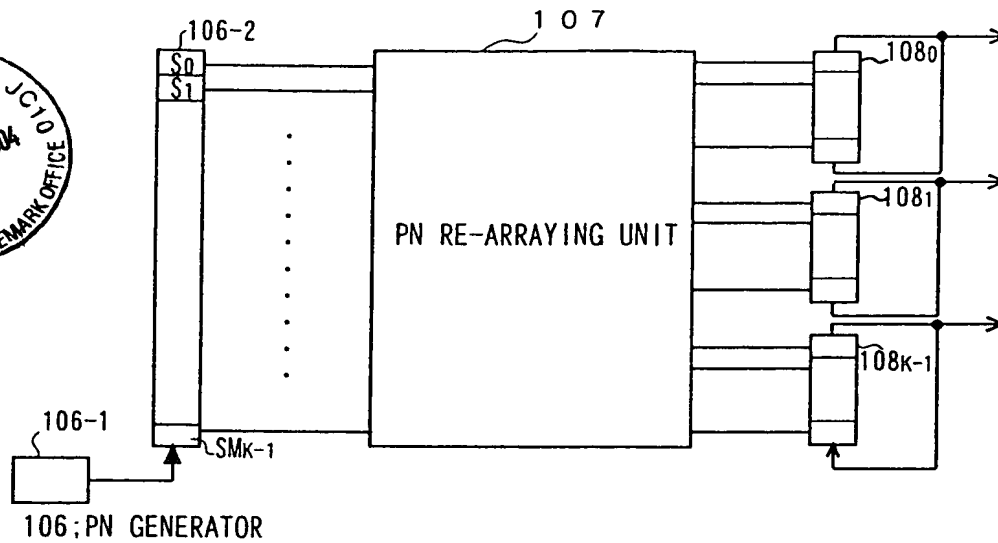


FIG. 3

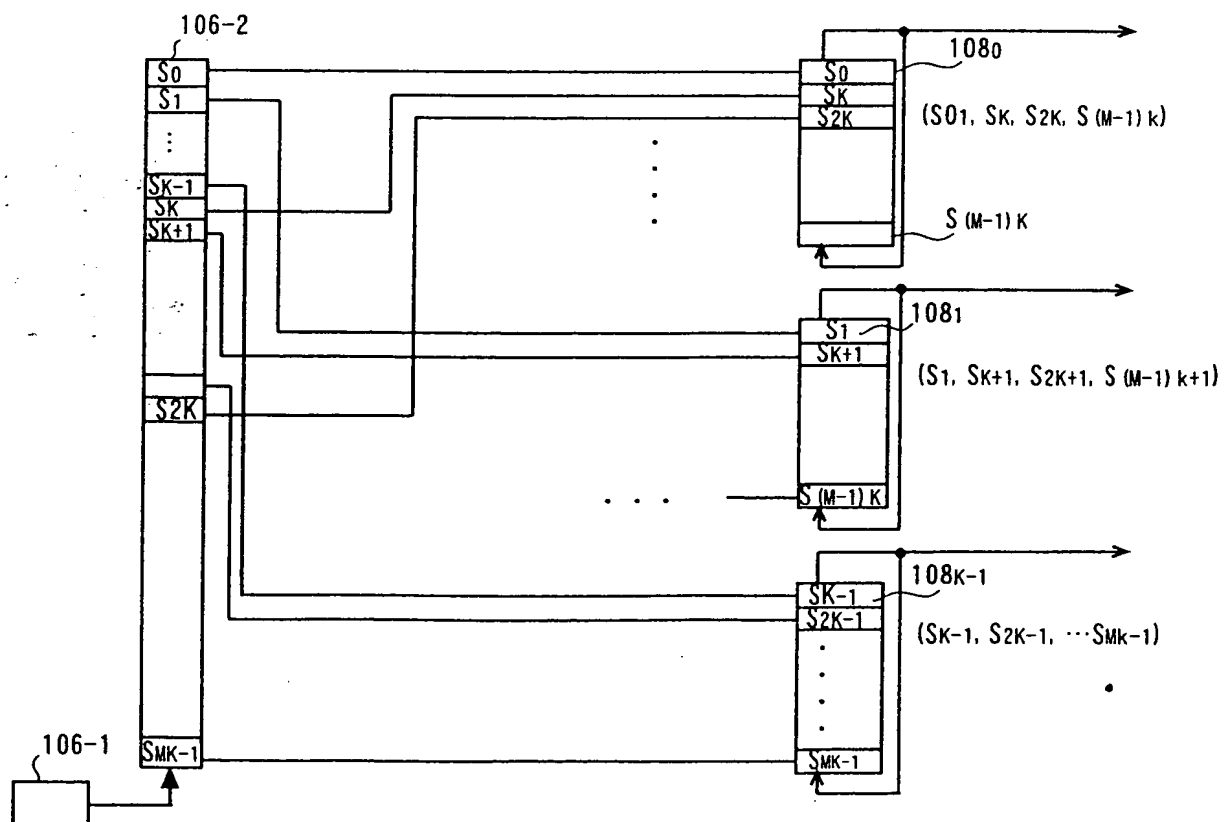




FIG. 4

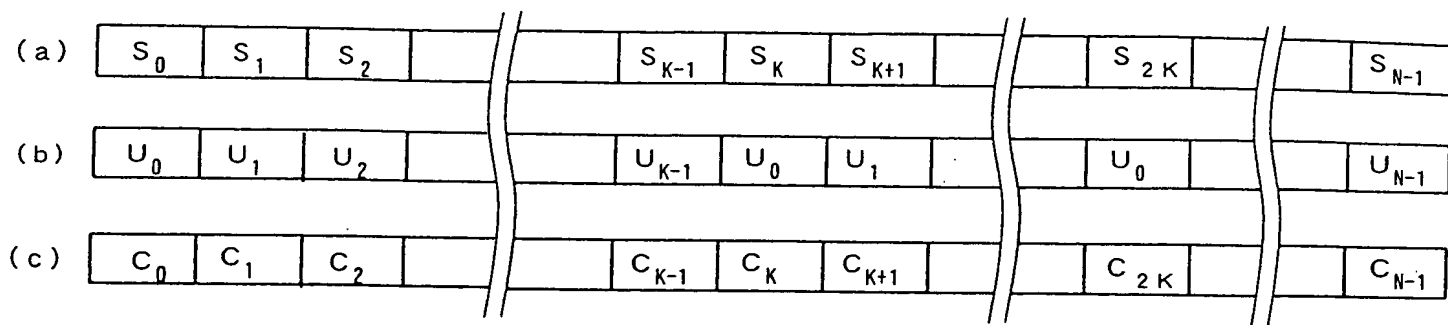




FIG. 5

		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
# # 0 CORRELATOR BLOCK	#0	$C_0 S_0$	$C_K S_K$	$C_{2K} S_{2K}$	...	$C_{(M-1)K} S_{(M-1)K}$			...
	#1		$C_K S_0$	$C_{2K} S_K$		$C_{(M-1)K} S_{(M-2)K}$	$C_{MK} S_{(M-1)K}$			
	#2			$C_{2K} S_0$		$C_{(M-1)K} S_{(M-3)K}$	$C_{MK} S_{(M-2)K}$	$C_{(M+1)K} S_{(M-1)K}$		
	#L/K									
# # 1 CORRELATOR BLOCK	#0	$C_0 S_1$	$C_K S_{K+1}$	$C_{2K} S_{2K+1}$	$C_L S_0$					$C_{L+(M-1)K} S_{(M-1)K}$
	#1		$C_K S_1$	$C_{2K} S_{K+1}$	...	$C_{(M-1)K} S_{(M-1)K+1}$				
							$C_{MK} S_{(M-1)K+1}$			
	#L/K									
# # 2 CORRELATOR BLOCK	#0	$C_0 S_2$	$C_K S_{K+2}$	$C_{2K} S_{2K+2}$	$C_L S_1$	$C_{(M-1)K} S_{(M-1)K+2}$				$C_{L+(M-1)K} S_{(M-1)K+1}$
	#1		$C_K S_2$	$C_{2K} S_{K+2}$						
	#L/K									
# # K-1 CORRELATOR BLOCK					$C_L S_2$					$C_{L+(M-1)K} S_{(M-1)K+2}$
	#0	$C_0 S_{K-1}$	$C_K S_{2K-1}$	$C_{2K} S_{3K-1}$						
	#1		$C_K S_{K-1}$	$C_{2K} S_{2K-1}$		$C_{(M-1)K} S_{MK-1}$	$C_{MK} S_{MK-1}$			
	#L/K				$C_L S_{K-1}$					$C_{L+(M-1)K} S_{MK-1}$



FIG. 6

# # 0 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_0$		$C_{K+1} S_K$	$C_{2K+1} S_{2K}$	...	$C_{(M-1)K+1} S_{(M-1)K}$			...
#1			$C_{K+1} S_0$	$C_{2K+1} S_K$	...	$C_{(M-1)K+1} S_{(M-2)K}$	$C_{MK+1} S_{(M-1)K}$		...
#2				$C_{2K+1} S_0$	...	$C_{(M-1)K+1} S_{(M-3)K}$	$C_{MK+1} S_{(M-2)K}$	$C_{(M+1)K+1} S_{(M-1)K}$...	
#L/K					$C_{L+1} S_0$				...
# # 1 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_1$		$C_{K+1} S_{K+1}$	$C_{2K+1} S_{2K+1}$	...	$C_{(M-1)K+1} S_{(M-1)K+1}$			...	$C_{L+(M-1)K+1} S_{(M-1)K+1}$
#1			$C_{K+1} S_1$	$C_{2K+1} S_{K+1}$	...		$C_{MK+1} S_{(M-1)K+1}$		...
#L/K					$C_{L+1} S_1$				...
# # 2 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_2$		$C_{K+1} S_{K+2}$	$C_{2K+1} S_{2K+2}$	...	$C_{(M-1)K+1} S_{(M-1)K+2}$			...	$C_{L+(M-1)K+1} S_{(M-1)K+2}$
#1			$C_{K+1} S_2$	$C_{2K+1} S_{K+2}$	...				...
#L/K					$C_{L+1} S_2$				...
# # K-1 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_{K-1}$		$C_{K+1} S_{2K-1}$	$C_{2K+1} S_{2K-1}$	...	$C_{(M-1)K+1} S_{MK-1}$			...
#1			$C_{K+1} S_{K-1}$	$C_{2K+1} S_{2K-1}$	...		$C_{MK+1} S_{MK-1}$		...
#L/K					$C_{L+1} S_{K-1}$				...	$C_{L+(M-1)K+1} S_{MK-1}$



FIG. 7

		1	2	....	K
CORRELATOR BLOCK # #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/K	$D_L U_0$	$D_{L+1} U_0$	....	$D_{L+K-1} U_0$
CORRELATOR BLOCK # #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/K	$D_{L-1} U_1$	$D_L U_1$	....	$D_{L+K-2} U_0$
:		:	:	:
CORRELATOR BLOCK # #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	....	$D_{2K} U_{K-1}$
	:	:	:	:
	CORRELATOR #L/K	$D_{L-(K-1)} U_{K-1}$	$D_{L-K+2} U_{K-1}$	....	$D_L U_{K-1}$



FIG . 8(a)

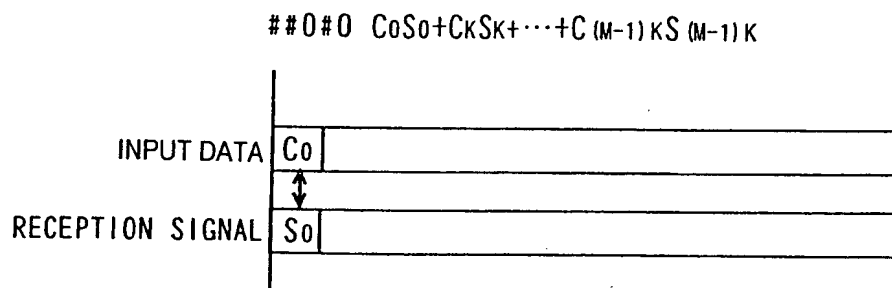


FIG . 8(b)

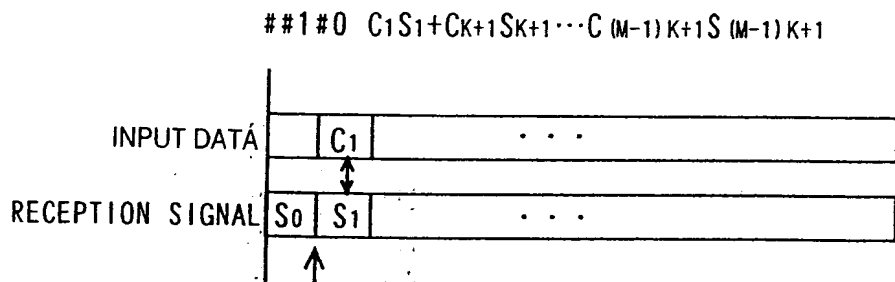


FIG. 9

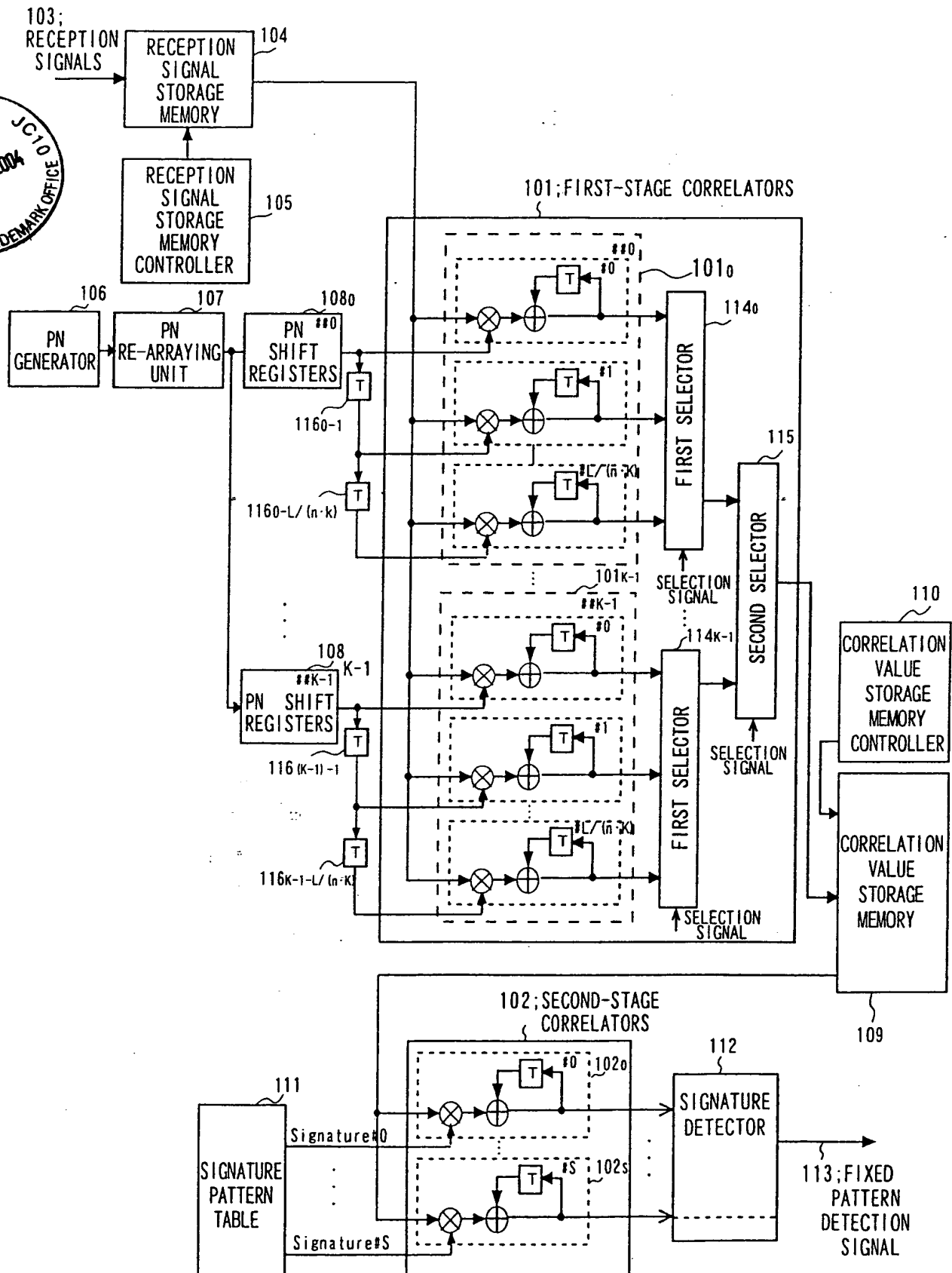
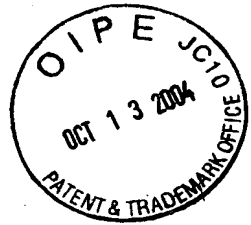




FIG. 10

		0	1	2	$L/(n \cdot k)$	$M-1$	M	$M+1$	\dots	$M+L/(n \cdot k)-1$
# # 0 CORRELATOR BLOCK	#0	$C_0 S_0$	$C_K S_K$	$C_{2K} S_{2K}$	\dots	$C_{(M-1)K} S_{(M-1)K}$			\dots	
	#1		$C_K S_0$	$C_{2K} S_K$		$C_{(M-1)K} S_{(M-2)K}$	$C_{MK} S_{(M-1)K}$		\dots	
	#2			$C_{2K} S_0$		$C_{(M-1)K} S_{(M-3)K}$	$C_{MK} S_{(M-2)K}$	$C_{(M+1)K} S_{(M-1)K}$	\dots	
	#L/(n·K)								\dots	
# # 1 CORRELATOR BLOCK	#0	$C_0 S_1$	$C_K S_{K+1}$	$C_{2K} S_{2K+1}$	$C_{L/n} S_0$	$C_{(M-1)K} S_{(M-1)K+1}$			\dots	$C_{L/n+(M-1)K} S_{(M-1)K}$
	#1		$C_K S_1$	$C_{2K} S_{K+1}$	\dots		$C_{MK} S_{(M-1)K+1}$		\dots	
									\dots	
	#L/(n·K)								\dots	
# # 2 CORRELATOR BLOCK	#0	$C_0 S_2$	$C_K S_{K+2}$	$C_{2K} S_{2K+2}$	$C_{L/n} S_1$	$C_{(M-1)K} S_{(M-1)K+2}$				$C_{L/n+(M-1)K} S_{(M-1)K+1}$
	#1		$C_K S_2$	$C_{2K} S_{K+2}$						
	#L/(n·K)									
# # K-1 CORRELATOR BLOCK		\approx	\approx	\approx	\approx	\approx	\approx	\approx	\approx	$C_{L/2+(M-1)K} S_{(M-1)K+2}$
	#0	$C_0 S_{K-1}$	$C_K S_{2K-1}$	$C_{2K} S_{2K-1}$		$C_{(M-1)K} S_{MK-1}$				
	#1		$C_K S_{K-1}$	$C_{2K} S_{2K-1}$			$C_{MK} S_{MK-1}$			
	#L/(n·K)	\vdots	\vdots	\vdots	$C_{L/n} S_{K-1}$					$C_{L/2+(M-1)K} S_{MK-1}$



FIG. 11

		1	2	...	K
CORRELATOR BLOCK # #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n} U_0$	$D_{L/n+1} U_0$	....	$D_{L/n+K-1} U_0$
CORRELATOR BLOCK # #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n-1} U_1$	$D_{L/n} U_1$	....	$D_{L/n+K-2} U_1$
≈		≈	≈	≈	≈
CORRELATOR BLOCK # #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	....	$D_{2K} U_{K-1}$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n-(K-1)} U_{K-1}$	$D_{L/n-K+2} U_{K-1}$	....	$D_{L/n} U_{K-1}$



FIG . 12

PRIOR ART

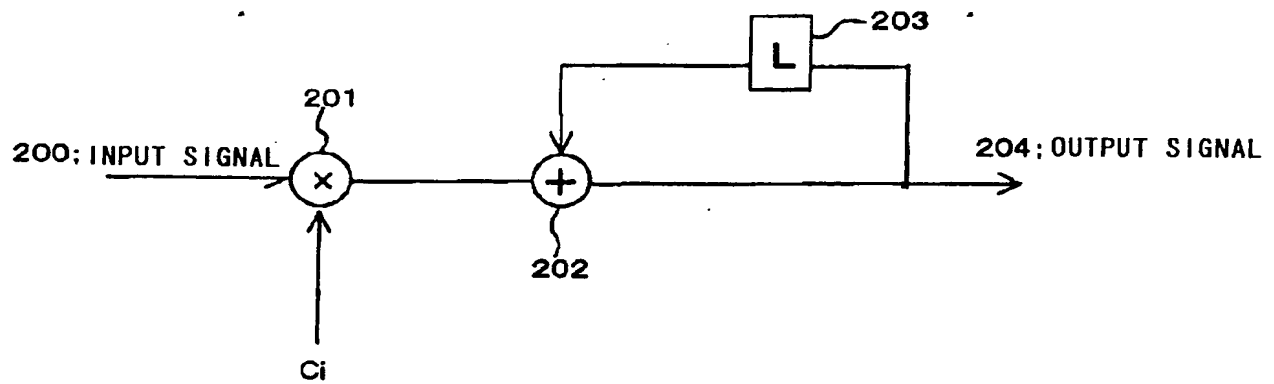




FIG . 13

PRIOR ART

